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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/972,870

10/10/2001

Ching-Yuan Wei

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09/30/2004

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EXAMINER

FLETCHER, JAMES A

ART UNIT

PAPER NUMBER

2616

2

DATE MAILED: 09/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/972,870

Applicant(s)

WEI, CHING-YUAN

Examiner

James A. Fletcher

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 October 2001.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-17 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

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DETAILED ACTION

1. Please include the new Art Unit 2616 in the caption or heading of any written or facsimile communication submitted after this Office Action because the examiner, who was assigned to Art Unit 2615, will be assigned to new Art Unit 2616. Your cooperation in this matter will assist in the timely processing of the submission and is appreciated by the Office.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: Digital Video/Audio Viewing and Listening Device.

Appropriate correction is required.

Claim Objections

3. Claims 1-17 are objected to as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999). The term "broadcast" in claims 1-17 is used by the claim to mean "send to

local display", while the accepted meaning is "to transmit or make public by means of radio or television."

Further in claims 1 and 15-17, the term "broadcast" is used by the claim to mean a conventional audio/video program such as is known to be broadcast, but the disclosure does not include any means for receiving a broadcast program. This term is also indefinite because the specification does not clearly redefine the term.

The examiner believes it would minimize confusion if the applicant would consider replacing the term "broadcast" by the term "send" or "transmit" when the intended meaning is "send to local display."

4. Claim 1 is objected to because of the following informalities: The claim contains the text "MPEG III". The examiner believes the correct term is --MPEG audio layer 3-- or --MP3--.

5. Claim 7 is objected to because of the following informality: The claim contains the text "a read / write CD-ROM device." The term ROM means "Read Only Memory," and as such cannot be written to in a normal sense. The examiner believes the text should read --a read / write CD device--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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7. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Beckert et al (6,510,182).

Regarding claim 1, Beckert et al disclose a digital video/audio viewing and listening device comprising:

- a CD-ROM drive comprising an optical pickup head, a driving unit for moving the optical pickup head and a CD-ROM, and a video / audio signal output connecting port (Col 3, line 65 - Col 4, line 1 “the computer 22 has a CD ROM drive 38 which reads application-related CDs, as well as musical, video, game, or other types of entertainment CDs”);
- a standard PCMCIA slot for installing a memory card with PCMCIA specification (Col 4, lines 4-6 “dual PCMCIA card sockets 44 which accept PCMCIA card types I, II, and III”); and
- a digital video / audio decompressing card connecting with the CD-ROM drive and the memory card slot through a data bus comprising a digital video / audio decompressing chip and a memory (Col 2, lines 21-22 “The computer has one or more storage devices [e.g. hard disk drive...]”), the digital video / audio decompressing chip supporting a decompressing ability of video data within MPEG II format (Col 4, lines 11-12 “A DVD...player may also be included in the computer) and audio data within MPEG III format for processing video / audio data in the memory card or the CD-ROM (Col 6, lines 12-16 “an audio signal processor 96 to perform the sound processing algorithms which may include...MPEG decoding”) and outputting to a video /

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audio output device through the video / audio signal output connecting port
(Col 6, lines 16-18 "The audio signal processor 96 also drives digital to analog
converters for a six channel audio output"),

- the memory comprising a video / audio broadcast program and an interface
operating program (Col 4, lines 9-10 "A hard disk drive...can be included on
the computer 22 for storing both application programs and user data"),
- the interface operating program displaying ways to operate windows on the
terminal video / audio output device for users to process video / audio
broadcast operations (Col 3, lines 56-57 "a multitasking operating system that
employs a graphical user interface").

Regarding claims 2-6, Beckert et al disclose a digital video / audio viewing and
listening device wherein the CD-ROM is a DVD video, CD video, LD video, MP3 video,
or read-only / audio CD-ROM device (Col 3, line 65 - Col 4, line 1 "the computer 22 has
a CD ROM drive 38 which reads application-related CDs, as well as musical, video,
game, or other types of entertainment CDs").

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set
forth in section 102 of this title, if the differences between the subject matter sought to be patented and
the prior art are such that the subject matter as a whole would have been obvious at the time the
invention was made to a person having ordinary skill in the art to which said subject matter pertains.
Patentability shall not be negated by the manner in which the invention was made.

9. Claims 7 and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable
over Beckert et al.

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Regarding claim 7, Beckert et al suggest a digital video / audio viewing and listening device with removable writable media (Col 4, lines 3-4 "The computer 22 has an optional 3.5" floppy diskette drive"), but do not specifically disclose a CD recorder.

The examiner takes official notice that CD recorders are notoriously well known, widely used, and commercially available devices for reading from and writing to recordable compact disk media, and that such devices represent an economical means for storing large amounts of data in a convenient media.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Beckert et al in order to include a read / write CD device.

Regarding claims 15-17, Beckert et al suggest a digital video / audio viewing and listening device capable of identifying and decompressing or decoding images stored in a variety of formats (Col 6, lines 65-67 "The computer module 64 supports any variety of applications that the vehicle user might desire") but does not specifically disclose JPEG, BMP, or GIF formats.

The examiner takes official notice that decompressing and decoding of JPEG, BMP, and GIF formats is well known, widely used, and commercially available, and that such decompressing and decoding allows users to view images stored under a variety of conditions of image quality and storage space.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Beckert et al to include decoders for JPEG, BMP, or GIF formats.

10. Claims 8-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beckert et al as applied to claims above, and further in view of Jones et al (6,438,638).

Regarding claim 8-10, Beckert et al disclose a digital video / audio viewing and listening device with a PCMCIA slot for receiving a PCMCIA card (Col 4, lines 4-5 "dual PCMCIA card sockets 44 which accept PCMCIA card types I, II, and III"), but does not specifically disclose that card as being an adapter for non-PCMCIA devices, particularly CompactFlash cards.

Jones teaches a PCMCIA to non-PCMCIA adapter for the purpose of connecting a compact flash card to a PC for viewing the images stored on the card (Col 2, lines 59-60 "CF-to-PCMCIA adapter 10 is a passive adapter that contains an opening that receives CompactFlash card 16").

As suggested by Beckert et al and taught by Jones, such adapters allow a user to rapidly transfer image data from the card to the hard drive of a PC for storage and viewing purposes.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Beckert et al to include a PCMCIA to CompactFlash adapter.

Regarding claims 11 and 13, Beckert et al disclose a digital video / audio viewing and listening device with a PCMCIA slot for receiving a PCMCIA card (Col 4, lines 4-5 "dual PCMCIA card sockets 44 which accept PCMCIA card types I, II, and III"), but does not specifically disclose that card as being an adapter for non-PCMCIA devices, particularly memory stick cards, and smart media cards.

Jones teaches a PCMCIA to non-PCMCIA adapter for the purpose of connecting memory stick cards, secure digital cards, smart media cards, and multi media cards to a PC for viewing the images stored on the card (Col 2, lines 23-24 "SmartMedia-to-PCMCIA adapter 10' is available commercially" and Col 2, lines 46-47 "Memory Stick 18 fits into an opening in Memory Stick-to-PCMCIA adapter 15").

As suggested by Beckert et al and taught by Jones, such adapters allow a user to rapidly transfer image data from the card to the hard drive of a PC for storage and viewing purposes.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Beckert et al to include a PCMCIA to CompactFlash adapter.

Regarding claims 12 and 14, Beckert et al disclose a digital video / audio viewing and listening device with a PCMCIA slot for receiving a PCMCIA card (Col 4, lines 4-5 "dual PCMCIA card sockets 44 which accept PCMCIA card types I, II, and III"), but the combination does not specifically disclose that card as being an adapter for non-PCMCIA devices, particularly secure digital cards, or multi media cards.

Jones teaches a universal adapter accepting all cards noted in the claims (Col 2, line 67 - Col 3, line 2 "An adapter that accepts SmartMedia, MultiMediaCard, Secure Digital, and Memory Stick cards is desired"), but does not specifically disclose that adapter as being a PCMCIA adapter.

The examiner takes official notice that adapting a variety of camera cards to a standard connection such as PCMCIA is well known, widely used, and commercially

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available, and provides the user with a high level of versatility in selecting the memory card for his camera.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Beckert to have PCMCIA adapters to secure digital cards or multi media cards.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Fletcher whose telephone number is (703) 305-3464. The examiner can normally be reached on 7:45AM - 5:45PM M-Th, first Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Faile can be reached at (703) 305-4380.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, DC 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only).

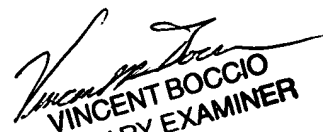
Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

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JAF
September 28, 2004


VINCENT BOCCIO
PRIMARY EXAMINER